

RAHUL KUMAR PURBEY

DATA SCIENTIST

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 Rahulpurbey0123  Rahulpurbey  rp3930

SUMMARY

Detail-oriented and results-driven Data Science Intern with hands-on experience in data analysis, machine learning, and data visualization. Skilled in Python, SQL, and statistical modeling, with a strong ability to extract meaningful insights from complex datasets. Demonstrated success in collaborative projects, technical documentation, and implementing data-driven solutions that enhance decision-making. Passionate about continuous learning, exploring AI and data analytics, and applying innovative approaches to solve real-world problems.

EXPERIENCE

Data Science Intern -Artistic Impression

05/2024 to 08/2024

. Performed analysis on large datasets to uncover trends and insights.

Siraha, Nepal

. Created data visualizations to enhance project presentations.

. Collaborated with team members to execute data cleaning and preprocessing tasks.

PROJECT

STOCK MARKET PREDICTION

Aug 2025 - Present

Used Machine learning and python

- Developed a stock market prediction model using XGBoost Regressor to forecast closing prices.
- Integrated historical stock data with news-based sentiment analysis for improved accuracy.
- Engineered features like MA_7, MA_30, volatility, and sentiment ratios to capture market trends

WEATHER PREDICTION

2025 Feb-May

Used quantum library to predict current weather

- Developed backend using flask to use quantum library offered by IBM to show the real time weather of places.
- Developed interactive frontend using Html, Css and Javascript where users can select the current location using map.

RAG-Based Video Topic Finder

2025Nov- Dec

Python, NLP, RAG, Whisper, Vector Embeddings, JSON, LLMs

Built a RAG-based AI teaching assistant that helps users find which topic is explained in which video along with the exact timestamp using natural language queries. The system converts videos into transcripts, generates vector embeddings, retrieves relevant video segments through semantic search and LLM-based prompting. Pipeline: Videos → MP3 → JSON Transcripts → Embeddings → RAG Prompt → LLM Response

EDUCATION & CERTIFICATIONS

TIMES SCHOOL, MIRCHAIYA, NEPAL - 10TH: SCIENCE

07/2020

SAGARMATHA ENGLISH BOARDING SCHOOL, MIRCHAIYA, NEPAL - +2: Computer Science

08/2022

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY,KATTANKULATHUR, CHENNAI -

B-TECH : Computer Engineering

Expected in 05/2027

TECHNICAL SKILLS AND INTERESTS

COURSEWORK : DATA STRUCTURE AND ALGORITHMS, OPERATING SYSTEM, OBJECT-ORIENTED PROGRAMMING, DATABASE MANAGEMENT SYSTEMS, QUANTUM COMPUTING, ARTIFICIAL INTELLIGENCE, DESIGN ANALYSIS ALGORITHMS, DATA ENGINEERING

PROGRAMMING LANGUAGES : C, C++ , PYTHON, JAVA, MACHINE LEARNING

FULL-STACK DEVELOPMENT : HTML, CSS, JAVA SCRIPT, REACT JS, NODE JS, MY SQL, SPRING BOOT

DEVOPS & TOOLS : GIT, GITHUB, ENGINEERING GRAPHICS AND DESIGN

SKILLS : Data analysis and visualization, Machine learning techniques, Python programming and development, Team collaboration and communication, Statistical modeling and analysis, NoSQL database solutions, SQL database management, Data pipeline design and implementation

ACTIVITIES AND HONORS

- . Organized and volunteered in college cultural and technical events.
- . Participated in academic clubs and social service activities.
- . Engaged in continuous learning through online courses and workshops.
- . Balanced academics with extracurricular interests such as sports, music, and travel.

LANGUAGES

- ENGLISH (FLUENT)
- HINDI (FLUENT)
- NEPALI (FLUENT)